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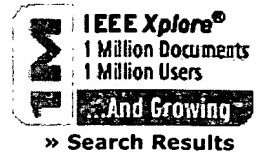
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61 **Adaptive order selection with aid of genetic algorithm**
Ikoma, N.; Maeda, H.;
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Pages:1785 - 1789 vol.3

[Abstract]   [PDF Full-Text (208 KB)]   **IEEE CNF**

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Systems, Man, and Cybernetics, 1999. IEEE SMC '99 Conference Proceedings. 1999 IEEE International Conference on , Volume: 1 , 12-15 Oct. 1999
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Pages:307 - 310 vol.3

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[Abstract]   [PDF Full-Text (328 KB)]   **IEEE CNF**

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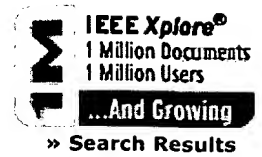Pages:121 - 125

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76 **Design of IIR filters with simultaneous amplitude and group-delay characteristics using genetic algorithm**
Abo-Zahhad, M.; Ahmed, S.M.;
Electronics, Circuits and Systems, 2003. ICECS 2003. Proceedings of the 2003 10th IEEE International Conference on , Volume: 3 , 14-17 Dec. 2003
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82 **A two stage genetic algorithm for optimisation of causal IIR perfect reconstruction multirate filter banks**
Singh Baicher, G.;
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84 **A genetic adaptive algorithm for data equalization**
White, M.S.; Flockton, S.J.;
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[Abstract]   [PDF Full-Text (280 KB)]   **IEEE CNF**

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[Abstract]   [PDF Full-Text (280 KB)]   **IEEE CNF**

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Sriranganathan, S.; Bull, D.R.; Redmill, D.W.;
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87 **A genetic algorithm for the design of finite word length arbitrary response cascaded IIR digital filters**
Arslan, T.; Horrocks, D.H.;
Genetic Algorithms in Engineering Systems: Innovations and Applications, 1995.
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[Abstract]   [PDF Full-Text (444 KB)]   **IEE CNF**

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1 Representation of electronic mail filtering profiles: a user study   ▬
Michael J. Pazzani
January 2000 **Proceedings of the 5th international conference on Intelligent user interfaces**

Full text available: 🔲 pdf(513.83 KB)   Additional Information: full citation, abstract, references, citings, index terms

Electronic mail offers the promise of rapid communication of essential information. However, electronic mail is also used to send unwanted messages. A variety of approaches can learn a profile of a user's interests for filtering mail. Here, we report on a usability study that investigates what types of profiles people would be willing to use to filter mail.

Keywords: mail filtering, user studies

2 Improving collaborative filtering with multimedia indexing techniques to create user-   ▬
adapting Web sites
Arnd Kohrs, Bernard Merialdo
October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 1)**

Full text available: 🔲 pdf(1.77 MB)   Additional Information: full citation, abstract, references, citings, index terms

The Internet is evolving from a static collection of hypertext, to a rich assortment of dynamic services and products targeted at millions of Internet users. For most sites it is a crucial matter to keep a close tie between the users and the site. More and more Web sites build close relationships with their users by adapting to their needs and therefore providing a personal experience. One aspect of personalization is the recommendation and presentation of information and product ...

Keywords: Web museum, collaborative filtering, content-based filtering, image indexing, user-adapting Web sites

3 Data filtering for automatic classification of rocks from reflectance spectra   ▬
Jonathan Moody, Ricardo Silva, Joseph Vanderwaart
August 2001 **Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: 📄 pdf(597.99 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The ability to identify the mineral composition of rocks and soils is an important tool for the exploration of geological sites. For instance, NASA intends to design robots that are sufficiently autonomous to perform this task on planetary missions. Spectrometer readings provide one important source of data for identifying sites with minerals of interest. Reflectance spectrometers measure intensities of light reflected from surfaces over a range of wavelengths. Spectral intensity patterns may in ...

4 <u>A survey on wavelet applications in data mining</u>
Tao Li, Qi Li, Shenghuo Zhu, Mitsunori Ogihara
December 2002 **ACM SIGKDD Explorations Newsletter**, Volume 4 Issue 2

Full text available: 📄 pdf(330.06 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

Recently there has been significant development in the use of wavelet methods in various data mining processes. However, there has been written no comprehensive survey available on the topic. The goal of this is paper to fill the void. First, the paper presents a high-level data-mining framework that reduces the overall process into smaller components. Then applications of wavelets for each component are reviewd. The paper concludes by discussing the impact of wavelets on data mining research an ...

5 <u>Software/modelware tutorials I: eM-Plant: eliminate bottlenecks with integrated</u>
<u>analysis tools in eM-Plant</u>
Matthias U. Heinicke, Alan Hickman
December 2000 **Proceedings of the 32nd conference on Winter simulation**

Full text available: 📄 pdf(243.24 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

To build a realistic simulation model is all very well - to add real value you must identify the major difficulties and generate better alternatives. Tecnomatix Technologies, developers of eM-Plant, the object oriented simulation tool for discrete event simulation, planning and optimization of production and logistics, are the world leaders of the e-Manufacturing market. eM-Plant is used across many industries from manufacturers like BMW and Daimler-Chrysler through shipyards to international fi ...

6 <u>Text filtering by boosting naive Bayes classifiers</u>
Yu-Hwan Kim, Shang-Yoon Hahn, Byoung-Tak Zhang
July 2000 **Proceedings of the 23rd annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: 📄 pdf(669.68 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Several machine learning algorithms have recently been used for text categorization and filtering. In particular, boosting methods such as AdaBoost have shown good performance applied to real text data. However, most of existing boosting algorithms are based on classifiers that use binary-valued features. Thus, they do not fully make use of the weight information provided by standard term weighting methods. In this paper, we present a boosting-based learning method for text filtering that use ...

7 <u>An updated survey of GA-based multiobjective optimization techniques</u>
Carlos A. Coello
June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2

Full text available: 📄 pdf(250.77 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

After using evolutionary techniques for single-objective optimization during more than two decades, the incorporation of more than one objective in the fitness function has finally become a popular area of research. As a consequence, many new evolutionary-based

approaches and variations of existing techniques have recently been published in the technical literature. The purpose of this paper is to summarize and organize the information on these current approaches, emphasizing the importanc ...

Keywords: artificial intelligence, genetic algorithms, multicriteria optimization, multiobjective optimization, vector optimization

8 Evolving intelligent text-based agents
Edmund S. Yu, Ping C. Koo, Elizabeth D. Liddy
June 2000 **Proceedings of the fourth international conference on Autonomous agents**

Full text available: pdf(1.14 MB)   Additional Information: full citation, references, citings, index terms

Keywords: evolution of agents, information agents, learning and adaptation, multi-agent teams

9 Applying associative retrieval techniques to alleviate the sparsity problem in collaborative filtering
Zan Huang, Hsinchun Chen, Daniel Zeng
January 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 1

Full text available: pdf(173.30 KB)   Additional Information: full citation, abstract, references, index terms

Recommender systems are being widely applied in many application settings to suggest products, services, and information items to potential consumers. Collaborative filtering, the most successful recommendation approach, makes recommendations based on past transactions and feedback from consumers sharing similar interests. A major problem limiting the usefulness of collaborative filtering is the sparsity problem, which refers to a situation in which transactional or feedback data is sparse and i ...

Keywords: Recommender system, associative retrieval, collaborative filtering, sparsity problem, spreading activation

10 GroupLens: an open architecture for collaborative filtering of netnews
Paul Resnick, Neophytos Iacovou, Mitesh Suchak, Peter Bergstrom, John Riedl
October 1994 **Proceedings of the 1994 ACM conference on Computer supported cooperative work**

Full text available: pdf(1.32 MB)   Additional Information: full citation, abstract, references, citings, index terms

Collaborative filters help people make choices based on the opinions of other people. GroupLens is a system for collaborative filtering of netnews, to help people find articles they will like in the huge stream of available articles. News reader clients display predicted scores and make it easy for users to rate articles after they read them. Rating servers, called Better Bit Bureaus, gather and disseminate the ratings. The rating servers predict scores based on the heuristic that people wh ...

Keywords: Usenet, collaborative filtering, electronic bulletin boards, information filtering, netnews, selective dissemination of information, social filtering, user model

11 Data clustering: a review
A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Full text available: 🔁 pdf(636.24 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

12 A multilevel approach to intelligent information filtering: model, system, and evaluation ▬

J. Mostafa, S. Mukhopadhyay, M. Palakal, W. Lam
October 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 4

Full text available: 🔁 pdf(610.01 KB) Additional Information: full citation, abstract, references, citings, index terms, review

In information-filtering environments, uncertainties associated with changing interests of the user and the dynamic document stream must be handled efficiently. In this article, a filtering model is proposed that decomposes the overall task into subsystem functionalities and highlights the need for multiple adaptation techniques to cope with uncertainties. A filtering system, SIFTER, has been implemented based on the model, using established techniques in information retrieval and artificia ...

Keywords: automated document representation, information filtering, user modeling

13 Session 4B: high-level design tools for analog circuits: DAISY: a simulation-based ▬

high-level synthesis tool for $\Delta\Sigma$ modulators

K. Francken, P. Vancorenland, G. Gielen
November 2000 **Proceedings of the 2000 IEEE/ACM international conference on Computer-aided design**

Full text available: 🔁 pdf(240.09 KB) Additional Information: full citation, abstract, references, citings

An integrated tool called DAISY (*Delta-Sigma Analysis* and *Synthesis*) is presented for the high-level synthesis of $\Delta\Sigma$ modulators. The approach determines both the optimum modulator topology and the required building block specifications, such that the system specifications -- mainly accuracy and signal bandwidth -- are satisfied at the lowest possible power consumption. A genetic-based differential evolution algorithm is used in combination with a fast dedi ...

14 Face recognition: A literature survey ▬

W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld
December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Full text available: 🔁 pdf(4.28 MB) Additional Information: full citation, abstract, references, index terms

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification

15 Machine learning in automated text categorization

Fabrizio Sebastiani
March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available: pdf(524.41 KB)   Additional Information: full citation, abstract, references, citings, index terms

The automated categorization (or classification) of texts into predefined categories has witnessed a booming interest in the last 10 years, due to the increased availability of documents in digital form and the ensuing need to organize them. In the research community the dominant approach to this problem is based on machine learning techniques: a general inductive process automatically builds a classifier by learning, from a set of preclassified documents, the characteristics of the categories. ...

Keywords: Machine learning, text categorization, text classification

16 Special issue on SAC 2001 best papers: Evolutionary image enhancement with user behavior modeling

Cristian Munteanu, Agostinho Rosa
April 2001 **ACM SIGAPP Applied Computing Review**, Volume 9 Issue 1

Full text available: pdf(831.87 KB)   Additional Information: full citation, abstract, references

In this paper we present a novel method for image enhancement of gray-scale images based on the simulation of evolution. Our method employs Genetic Algorithms to evolve the shape of the contrast curve in the image, while attempting to partially automate the subjective process of image evaluation (e.g. user behavior) by performing multiple regression on fitness values. Results obtained show the robustness and efficiency of the evolutive method for image enhancement. For several images in the test ...

Keywords: image enhancement, multiple regression, real-coded genetic algorithms, subjective fitness

17 Special issue on special feature: Dimensionality reduction via sparse support vector machines

Jinbo Bi, Kristin Bennett, Mark Embrechts, Curt Breneman, Minghu Song
March 2003 **The Journal of Machine Learning Research**, Volume 3

Full text available: pdf(243.71 KB)   Additional Information: full citation, abstract, index terms

We describe a methodology for performing variable ranking and selection using support vector machines (SVMs). The method constructs a series of sparse linear SVMs to generate linear models that can generalize well, and uses a subset of nonzero weighted variables found by the linear models to produce a final nonlinear model. The method exploits the fact that a linear SVM (no kernels) with l_1-norm regularization inherently performs variable selection as a side-effect of minimizin ...

18 Reproducing color images using custom inks

Eric J. Stollnitz, Victor Ostromoukhov, David H. Salesin
July 1998 **Proceedings of the 25th annual conference on Computer graphics and interactive techniques**

Full text available: pdf(217.32 KB)   Additional Information: full citation, references, citings, index terms

Keywords: Kubelka-Munk model, Neugebauer model, color printing, color reproduction, gamut mapping, ink selection, separations

19 Efficient design space exploration in PICO

Santosh G. Abraham, B. R. Rau

November 2000 **Proceedings of the 2000 international conference on Compilers, architectures, and synthesis for embedded systems**

Full text available: pdf(221.52 KB)   Additional Information: full citation

Keywords: automated design, design space decomposition, hierarchical evaluation, multi-objective optimization, multiple criteria optimization

20 Motion sketching for control of rigid-body simulations

Jovan Popović, Steven M. Seitz, Michael Erdmann

October 2003 **ACM Transactions on Graphics (TOG)**, Volume 22 Issue 4

Full text available: pdf(156.23 KB)   Additional Information: full citation, abstract, references, index terms, review

Motion sketching is an approach for creating realistic rigid-body motion. In this approach, an animator sketches how objects should move and the system computes a physically plausible motion that best fits the sketch. The sketch is specified with a mouse-based interface or with hand-gestures, which move instrumented objects in the real world to act out the desired behaviors. The sketches may be imprecise, may be physically infeasible, or may have incorrect timing. A multiple-shooting optimizatio ...

Keywords: Physically based animation, animation with constraints, user interface design

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21 The use of single and multiple seed architectures with a natural based micro-architecture exploration algorithm
Chris J. Rouse, Alison J. Carter
September 1994 **Proceedings of the conference on European design automation**

Full text available: 📄 pdf(553.88 KB)   Additional Information: full citation, references, index terms

22 Machine learning in DNA microarray analysis for cancer classification
Sung-Bae Cho, Hong-Hee Won
January 2003 **Proceedings of the First Asia-Pacific bioinformatics conference on Bioinformatics 2003 - Volume 19**

Full text available: 📄 pdf(405.54 KB)   Additional Information: full citation, abstract, references, citings, index terms

The development of microarray technology has supplied a large volume of data to many fields. In particular, it has been applied to prediction and diagnosis of cancer, so that it expectedly helps us to exactly predict and diagnose cancer. To precisely classify cancer we have to select genes related to cancer because extracted genes from microarray have many noises. In this paper, we attempt to explore many features and classifiers using three benchmark datasets to systematically evaluate the perf ...

Keywords: KNN, MLP, SASOM, SVM, biological data mining, classification, ensemble classifier, feature selection, gene expression profile

23 Evolving and messaging decision-making agents
Edmund S. Yu
May 2001 **Proceedings of the fifth international conference on Autonomous agents**

Full text available: 📄 pdf(240.53 KB)   Additional Information: full citation, abstract, references, index terms

In this paper we describe our neurogenetic approach to developing a multi- agent decision support system which assists users in gathering, merging, analyzing, and using information to assess risks and make recommendations in situations that may require tremendous amounts of time and attention of the users. In Phase I of this project, called the EMMA project, we demonstrated the feasibility of a set of solutions to various problems by building an intelligent agent application that makes reco ...

Keywords: adaptation and learning, agent communication languages, evolution of agents, information agents, multi-agent communication/collaboration

24 Evolutionary image enhancement with user behaviour modeling
Cristian Munteanu, Agostinho Rosa
March 2001 **Proceedings of the 2001 ACM symposium on Applied computing**

Full text available: pdf(188.50 KB)   Additional Information: full citation, references, index terms

Keywords: image enhancement, multiple regression, real-coded genetic algorithms, subjective fitness

25 Technical papers: Capturing interest through inference and visualization: ontological user profiling in recommender systems
Stuart E. Middleton, Nigel R. Shadbolt, David C. De Roure
October 2003 **Proceedings of the international conference on Knowledge capture**

Full text available: pdf(362.41 KB)   Additional Information: full citation, abstract, references, index terms

Tools for filtering the World Wide Web exist, but they are hampered by the difficulty of capturing user preferences in such a diverse and dynamic environment. Recommender systems help where explicit search queries are not available or are difficult to formulate, learning the type of thing users like over a period of time. We explore an ontological approach to user profiling in the context of a recommender system. Building on previous work involving ontological profile inference and the use of ext ...

Keywords: knowledge capture, machine learning, ontology, profile visualization, recommender systems, user modelling, user profiling

26 System-level power optimization: techniques and tools
Luca Benini, Giovanni de Micheli
April 2000 **ACM Transactions on Design Automation of Electronic Systems (TODAES),**
Volume 5 Issue 2

Full text available: pdf(385.22 KB)   Additional Information: full citation, abstract, references, citings, index terms

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic sytems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, communication, and storage units, and we review methods of reducing their energy consumption. We also study models for analyzing the energy cost of software, and methods for energy-efficient software design and compilation. This survery ...

27 Low power synthesis of sum-of-products computation (poster session)
K. Masselos, S. Theoharis, P. K. Merakos, T. Stouraitis, C. E. Goutis
August 2000 **Proceedings of the 2000 international symposium on Low power electronics and design**

Full text available: pdf(254.13 KB)   Additional Information: full citation, abstract, references, index terms

Novel techniques for the power efficient synthesis of sum-of-product computations are presented. Simple and efficient heuristics for scheduling and assignment are described. Different partly static cost functions are proposed to drive the synthesis tasks. The proposed cost functions target the power consumption either in the buses connecting the functional units with the storage elements or inside the functional units. The partly static

nature of the proposed cost functions reduces the time ...

28 Delivering acceleration: the potential for increased HPC application performance using reconfigurable logic

David Caliga, David Peter Barker

November 2001 **Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available: pdf(396.61 KB)   Additional Information: full citation, abstract, references, index terms

SRC Computers, Inc. has integrated adaptive computing into its SRC-6 high-end server, incorporating reconfigurable processors as peers to the microprocessors. Performance improvements resulting from reconfigurable computing can provide orders of magnitude speedups for a wide variety of algorithms. Reconfigurable logic in Field Programmable Gate Arrays (FPGAs) has shown great advantage to date in special purpose applications and specialty hardware. SRC Computers is working to bring this technolog ...

Keywords: FPGA, reconfigurable computing

29 Efficient Feature Selection via Analysis of Relevance and Redundancy

Lei Yu, Huan Liu

December 2004 **The Journal of Machine Learning Research**, Volume 5

Full text available: pdf(197.59 KB)   Additional Information: full citation, abstract

Feature selection is applied to reduce the number of features in many applications where data has hundreds or thousands of features. Existing feature selection methods mainly focus on finding relevant features. In this paper, we show that feature relevance alone is insufficient for efficient feature selection of high-dimensional data. We define feature redundancy and propose to perform explicit redundancy analysis in feature selection. A new framework is introduced that decouples relevance analy ...

30 A novel ensemble-based scoring and search algorithm for protein redesign, and its application to modify the substrate specificity of the gramicidin synthetase A phenylalanine adenylation enzyme

Ryan H. Lilien, Brian W. Stevens, Amy C. Anderson, Bruce R. Donald

March 2004 **Proceedings of the eighth annual international conference on Computational molecular biology**

Full text available: pdf(2.36 MB)   Additional Information: full citation, abstract, references, index terms

Realization of novel molecular function requires the ability to alter molecular complex formation. Enzymatic function can be altered by changing enzyme-substrate interactions via modification of an enzyme's active site. A redesigned enzyme may either perform a novel reaction on its native substrates or its native reaction on novel substrates. A number of computational approaches have been developed to address the combinatorial nature of the protein redesign problem. These approaches typically se ...

Keywords: enzyme design, fluorescence binding assay, molecular ensemble, non-ribosomal peptide synthetase, protein design, protein flexibility, protein-ligand binding

31 Low complexity FIR filters using factorization of perturbed coefficients

C. Neau, K. Muhammad, K. Roy

March 2001 **Proceedings of the conference on Design, automation and test in Europe**

Full text available: pdf(73.50 KB)   Additional Information: full citation, references, index terms

32 Riemann mapping based constraint handling for evolutionary search
Dae Gyu Kim
February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**

Full text available: pdf(634.14 KB)   Additional Information: full citation, references, index terms

Keywords: Riemann mapping, constraint handling, evolutionary search, optimization

33 Session P3: volume visualization I: Interactive spectral volume rendering
Steven Bergner, Torsten Möller, Mark S. Drew, Graham D. Finlayson
October 2002 **Proceedings of the conference on Visualization '02**

Full text available: pdf(5.23 MB)   Additional Information: full citation, abstract, references, index terms

We describe a method for volume rendering using a spectral representation of colour instead of the traditional RGB model. It is shown how to use this framework for a novel exploration of datasets through enhanced transfer function design. Furthermore, our framework is extended to allow real-time re-lighting of the scene created with any rendering method. The technique of post-illumination is introduced to generate new spectral images for arbitrary light colours in real-time. Also a tool is descr ...

Keywords: interactive re-lighting, post-illumination, spectral volume rendering

34 Technical poster session 3: multimedia tools, end-systems, and applications: Automatic music video generation based on temporal pattern analysis
Xian-Sheng HUA, Lie LU, Hong-Jiang ZHANG
October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Full text available: pdf(180.36 KB)   Additional Information: full citation, abstract, references, index terms

Music video (MV) is a short film meant to present a visual representation of a popular music song. In this paper, we present a system that automatically generates MV-like videos from personal home videos based on observations that generally there are obvious repetitive visual and aural patterns in MVs. Based on a set of video and music analysis algorithms, the automatic music video (AMV) generation system automatically extracts temporal structures of the video and music, as well as repetitive ...

Keywords: music analysis, music video, optimization, video content analysis, video editing, video segmentation

35 Genetic algorithms for non-linear adaptive filters in digital signal processing
André Neubauer
February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**

Full text available: pdf(332.72 KB)   Additional Information: full citation, references, index terms

Keywords: adaptive filter, genetic algorithm, on-line adaptation, parameter estimation, stochastic signal estimation

36 Visualization of plant growth

Jeremy J. Loomis, Xiuwen Liu, Zhaohua Ding, Kikuo Fujimura, Michael L. Evans, Hideo Ishikawa
October 1997 **Proceedings of the 8th conference on Visualization '97**
Full text available: pdf(559.67 KB)
Publisher Site   Additional Information: full citation, references, index terms

Keywords: image sequence analysis, non-rigid motion, plant biology, shape representation

37 Scalable algorithms for mining large databases
Rajeev Rastogi, Kyuseok Shim
August 1999 **Tutorial notes of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: pdf(4.11 MB)   Additional Information: full citation, references, index terms

38 Reconfigurable computing: a survey of systems and software
Katherine Compton, Scott Hauck
June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2

Full text available: pdf(710.56 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Due to its potential to greatly accelerate a wide variety of applications, reconfigurable computing has become a subject of a great deal of research. Its key feature is the ability to perform computations in hardware to increase performance, while retaining much of the flexibility of a software solution. In this survey, we explore the hardware aspects of reconfigurable computing machines, from single chip architectures to multi-chip systems, including internal structures and external coupling. W ...

Keywords: Automatic design, FPGA, field-programmable, manual design, reconfigurable architectures, reconfigurable computing, reconfigurable systems

39 Synthesis of low power folded programmable coefficient FIR digital filters (short paper)
Vijay Sundararajan, Keshab K. Parhi
January 2000 **Proceedings of the 2000 conference on Asia South Pacific design automation**
Full text available: pdf(151.33 KB)   Additional Information: full citation, references

40 Computing curricula 2001
September 2001 **Journal on Educational Resources in Computing (JERIC)**
Full text available: pdf(613.63 KB)
html(2.78 KB)   Additional Information: full citation, references, citings, index terms

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Terms used **genetic algorithm** and **filter** and **coefficients**   Found **2,673** of **150,138**

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41 Technical session 9: still and moving images: Automatically converting otograic series into video   ▬
Xian-Sheng Hua, Lie Lu, Hong-Jiang Zhang
October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**
Full text available: 📄 pdf(547.80 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we proposed a novel way to browse a series of otogras, which can be regarded as a system exploring the new medium between otogra and video. The scheme exploits the rich content embedded in a single otogra and otograic series. Based on studying the process of a viewer's attention variation on objects or regions of an image, a otogra can be converted into a motion clip. A system named <i>oto2Video</i> was developed to automatically convert a otograic series into a video b ...

Keywords: attention detection, audio segmentation, face detection, image clustering, image content analysis

42 An application of rule-based and case-based reasoning within a single legal knowledge-based system   ▬
Kamalendu Pal, John A. Campbell
September 1997 **ACM SIGMIS Database**, Volume 28 Issue 4
Full text available: 📄 pdf(1.31 MB)   Additional Information: full citation, abstract, index terms

A knowledge-based system, Advisory Support for Home Settlement in Divorce (ASHSD), which gives advice on different aspects of matrimonial-home-settlement in English divorce law is described. The system employs two reasoning methods, rule-based reasoning (RBR) and case-based reasoning (CBR) in an integrated framework. It automates the estimation of the relative suitability of these reasoning methods for any given new case. This relative suitability is judged by matching the features of the select ...

Keywords: case-based reasoning, knowledge-based system, law, numerical taxonomy, rule-based reasoning

43 Further experience with controller-based automatic motion synthesis for articulated figures   ▬
Joel Auslander, Alex Fukunaga, Hadi Partovi, Jon Christensen, Lloyd Hsu, Peter Reiss, Andrew

Shuman, Joe Marks, J. Thomas Ngo
October 1995 **ACM Transactions on Graphics (TOG)**, Volume 14 Issue 4

Full text available: pdf(5.28 MB)   Additional Information: full citation, abstract, references, citings, index terms

We extend an earlier automatic motion-synthesis algorithm for physically realistic articulated figures in several ways. First, we summarize several incremental improvements to the original algorithm that improve its efficiency significantly and provide the user with some ability to influence what motions are generated. These techniques can be used by an animator to achieve a desired movement style, or they can be used to guarantee variety in the motions synthesized over several runs of the ...

Keywords: animation, evolutionary computation, heuristic methods, machine learning, spacetime constraints, stochastic optimization

44 A review of the fractal image compression literature
Dietmar Saupe, Raouf Hamzaoui
November 1994 **ACM SIGGRAPH Computer Graphics**, Volume 28 Issue 4

Full text available: pdf(968.87 KB)   Additional Information: full citation, index terms

45 Multimedia authoring: AVE: automated home video editing
Xian-Sheng HUA, Lie LU, Hong-Jiang ZHANG
November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**

Full text available: pdf(384.96 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we present a system that automates home video editing. This system automatically extracts a set of highlight segments from a set of raw home videos and aligns them with user supplied incidental music based on the content of the video and incidental music. We developed an approach for extracting temporal structure and determining the importance of a video segment in order to facilitate the selection of highlight segments. Additionally we extract temporal structure, beats and tempos ...

Keywords: audio segmentation, music analysis, optimization, video content analysis, video editing, video segmentation, video skimming

46 Power-profiler: optimizing ASICs power consumption at the behavioral level
Raul San Martin, John P. Knight
January 1995 **Proceedings of the 32nd ACM/IEEE conference on Design automation**

Full text available: pdf(185.13 KB)   Additional Information: full citation, references, citings, index terms

47 The remote processing framework for portable computer power saving
Alexey Rudenko, Peter Reiher, Gerald J. Popek, Geoffrey H. Kuenning
February 1999 **Proceedings of the 1999 ACM symposium on Applied computing**

Full text available: pdf(888.21 KB)   Additional Information: full citation, references, citings, index terms

Keywords: client server, laptop battery, power saving, remote processing, wireless communication

48 Heuristic optimization using computer simulation: a study of staffing levels in a
pharmaceutical manufacturing laboratory
Tom Brady, Benard McGarvey
December 1998 **Proceedings of the 30th conference on Winter simulation**

Full text available: 🔁 pdf(62.38 KB)   Additional Information: <u>full citation</u>, <u>citings</u>, <u>index terms</u>

49 Image annotation and video summarization: Contrast-based image attention analysis
by using fuzzy growing
Yu-Fei Ma, Hong-Jiang Zhang
November 2003 **Proceedings of the eleventh ACM international conference on
Multimedia**

Full text available: 🔁 pdf(808.71 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Visual attention analysis provides an alternative methodology to semantic image
understanding in many applications such as adaptive content delivery and region-based
image retrieval. In this paper, we propose a feasible and fast approach to attention area
detection in images based on contrast analysis. The main contributions are threefold: 1) a
new saliency map generation method based on local contrast analysis is proposed; 2) by
simulating human perception, a fuzzy growing method is used to ext ...

Keywords: attention detection, contrast analysis, fuzzy growing, image analysis, visual
attention model

50 A fast and accurate framework to analyze and optimize cache memory behavior
Xavier Vera, Nerina Bermudo, Josep Llosa, Antonio González
March 2004 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 26 Issue 2

Full text available: 🔁 pdf(270.06 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The gap between processor and main memory performance increases every year. In order
to overcome this problem, cache memories are widely used. However, they are only
effective when programs exhibit sufficient data locality. Compile-time program
transformations can significantly improve the performance of the cache. To apply most of
these transformations, the compiler requires a precise knowledge of the locality of the
different sections of the code, both before and after being transformed.Cache ...

Keywords: Cache memories, optimization, sampling

51 Dynamic model abstraction
Kangsun Lee, Paul A. Fishwick
November 1996 **Proceedings of the 28th conference on Winter simulation**

Full text available: 🔁 pdf(821.69 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>

52 SIPAMPL: Semi-infinite programming with AMPL
A. Ismael F. Vaz, Edite M. G. P. Fernandes, M. Paula S. F. Gomes
March 2004 **ACM Transactions on Mathematical Software (TOMS)**, Volume 30 Issue 1

Full text available: 🔁 pdf(171.72 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

SIPAMPL is an environment for coding semi-infinite programming (SIP) problems. This environment includes a database containing a set of SIP problems that have been collected from the literature and a set of routines. It allows users to code their own SIP problems in AMPL, to use any problem already in the database, and to develop and test any SIP solver. The SIPAMPL routines support the interface between a potential SIP solver and test problems coded in AMPL. SIPAMPL also provides a tool that al ...

Keywords: Evaluation tools, semi-infinite programming, test problems

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53 Design space exploration and architectural design of HW/SW systems: Metrics for design space exploration of heterogeneous multiprocessor embedded systems
Donatella Sciuto, Fabio Salice, Luigi Pomante, William Fornaciari
May 2002 **Proceedings of the tenth international symposium on Hardware/software codesign**

Full text available: pdf(633.95 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper considers the problem of designing heterogeneous multiprocessor embedded systems. The focus is on a step of the design flow: the definition of innovative metrics for the analysis of the system specification to statically identify the most suitable processing elements class for each system functionality. Experimental results are also included, to show the applicability and effectiveness of the proposed methodology.

Keywords: heterogeneous multiprocessor Embedded Systems, metrics for Hw/Sw partitioning, system-level design

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54 PYTHIA-II: a knowledge/database system for managing performance data and recommending scientific software
Elias N. Houstis, Ann C. Catlin, John R. Rice, Vassilios S. Verykios, Naren Ramakrishnan, Catherine E. Houstis
June 2000 **ACM Transactions on Mathematical Software (TOMS)**, Volume 26 Issue 2

Full text available: pdf(796.18 KB)   Additional Information: full citation, abstract, references, citings, index terms

Often scientists need to locate appropriate software for their problems and then select from among many alternatives. We have previously proposed an approach for dealing with this task by processing performance data of the targeted software. This approach has been tested using a customized implementation referred to as PYTHIA. This experience made us realize the complexity of the algorithmic discovery of knowledge from performance data and of the management of these data together with the d ...

Keywords: data mining, inductive logic programming, knowledge discovery in databases, knowledge-based systems, performance evaluation, recommender systems, scientific software

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55 Design of an efficient channel block retuning
Vincent Barbéra, Brigitte Jaumard
November 2001 **Mobile Networks and Applications**, Volume 6 Issue 6

Full text available: pdf(180.25 KB)   Additional Information: full citation, abstract, references, index terms

Cellular networks must be updated very often. Due to technical and economical reasons, the complete channel retuning of an urban network has to be done in several steps. The objective is then to define the steps in such a way that the increase in the interference level is minimum, and do not let it go further than a given threshold of minimum quality for the

cellular network. We propose a greedy heuristic and an ascent---descent method including a Tabu Search module to retune a network in a give ...

Keywords: ascent---descent heuristic, cellular telephone system, frequency assignment, greedy heuristic, retuning, tabu search

56 <u>Power grid design and analysis techniques: A stochastic approach To power grid analysis</u>
Sanjay Pant, David Blaauw, Vladimir Zolotov, Savithri Sundareswaran, Rajendran Panda
June 2004 **Proceedings of the 41st annual conference on Design automation**
Full text available: pdf(312.28 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Power supply integrity analysis is critical in modern high perfor-mance designs. In this paper, we propose a stochastic approach to obtain statistical information about the collective IR and LdI/dt drop in a power supply network. The currents drawn from the power grid by the blocks in a design are modelled as stochastic processes and their statistical information is extracted, including correlation infor-mation between blocks in both space and time. We then propose a method to propagate the stat ...

Keywords: IR drop, Ldi/dt, power supply networks

57 <u>Processor-memory coexploration using an architecture description language</u>
Prabhat Mishra, Mahesh Mamidipaka, Nikil Dutt
February 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue 1
Full text available: pdf(201.88 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Memory represents a major bottleneck in modern embedded systems in terms of cost, power, and performance. Traditionally, memory organizations for programmable embedded systems assume a fixed cache hierarchy. With the widening processor--memory gap, more aggressive memory technologies and organizations have appeared, allowing customization of a heterogeneous memory architecture tuned for specific target applications. However, such a processor--memory coexploration approach critically needs the ab ...

Keywords: Processor--memory codesign, architecture description language, design space exploration, memory exploration

58 <u>Adaptation/load balancing: Resource-aware exploration of the emergent dynamics of simulated systems</u>
Sven A. Brueckner, H. Van Dyke Parunak
July 2003 **Proceedings of the second international joint conference on Autonomous agents and multiagent systems**
Full text available: pdf(261.47 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The emerging science of simulation enables us to explore the dynamics of large and complex systems even if a formal representation and analysis of the system is intractable and a construction of a real-world instantiation for the purpose of experimentation is too expensive. A computer simulation model can be run for many more configurations and the accumulated observations deepen our understanding of the system's operation, but it is very important that we have tools that help us manage the huge ...

Keywords: graph coloring, multi-agent coordination, phase change, search, simulation, system dynamics, tools and methods

59 Potpourri: A low power direct digital frequency synthesizer with 60 dBc spectral purity
J. M.P. Langlois, D. Al-Khalili
April 2002 **Proceedings of the 12th ACM Great Lakes symposium on VLSI**

Full text available: pdf(256.18 KB)   Additional Information: full citation, abstract, references, index terms

> We present a low-power sine-output Direct Digital Frequency Synthesizer (DDFS) realized in
> 0.18 &mgr;m CMOS that achieves 60 dBc spectral purity from DC to the Nyquist frequency.
> No ROM or multipliers are used, but an external DAC is required if an analog output is
> desired. Power consumption is 10 mW for a 100 MHz clock, which is significantly less than
> figures reported previously. System complexity is greatly reduced by using an efficient
> linear interpolation scheme to approximate a sinusoid fu ...

> **Keywords**: DDFS, DDS, low power, phase to sine amplitude conversion

60 Design methods: An improved synthesis method for low power hardwired FIR filters
Vagner S. Rosa, Eduardo Costa, José C. Monteiro, Sergio Bampi
September 2004 **Proceedings of the 17th symposium on Integrated circuits and system
design**

Full text available: pdf(372.94 KB)   Additional Information: full citation, abstract, references, index terms

> This work presents a method to design parallel digital finite impulse response (FIR) filters
> for hardwired (fixed coefficients) implementation with reduced number of adders and logic
> depth in the multiplier block. The proposed method uses a combination of two approaches:
> first, the reduction of the coefficients to N-Power-of-Two (NPT) terms, where N is the
> maximum number of bits in '1' state allowed for each coefficient and Common
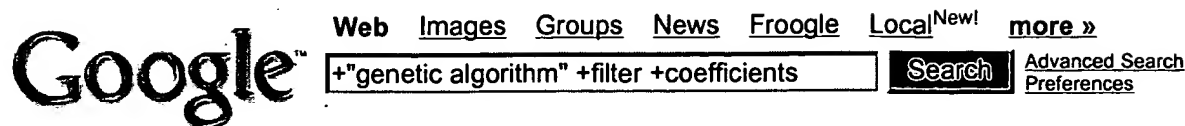> Subexpression Elimination (CSE) among multipliers. An algorithm f ...

> **Keywords**: FPGA synthesis, common subexpression elimination, parallel FIR filter, power-
> of-two

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... is slow perturb the values of the **filter coefficients**. ... and KH Cho, "Recursive
Adaptive **Filter** Design Using an Adaptive **Genetic Algorithm**," Proc.
cwww.ee.nctu.edu.tw/~vdo-meeting/file/ vdo_2003_09_29_markliu_Filter%20Design%20Using%20GA.ppt - Similar pages

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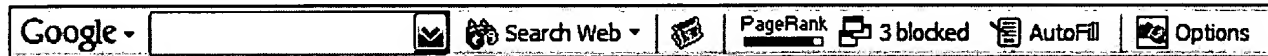
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... routines created in Matlab or **genetic algorithm** implementation. ..... curve yellow colored
considered all **coefficients** equal to ... **Filter** parameters are the same from [2 ...
emacademy.org/.../submit/get_testpdf.php?status=valid& id=041210223138&pdffilename=041210223138.pdf - Similar pages

[PDF] A 2-DIGIT DBNS **FILTER** ARCHITECTURE $\sum$
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... mapping of infinite pre- cision **filter coefficients** to the .... half index domain archi-
tecture used for the **filter**. ..... 1-D FIR Filters with **Genetic Algorithm**," Proc ...
www.atips.ca/research/documents/ ca/dbns/2000_2-Digit_DBNS.pdf - Similar pages

Design of optimal shift-invariant orthonormal wavelet **filter** banks ...
... is a new design method based on the **genetic algorithm** for the ... constrained optimisation
problem, chromosome representation of **filter coefficients**, the shift ...
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[PDF] A Study of Non-Uniformity Correction Methods for Staring Array IR ...
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The mask is shown below. D = 0.0114 Scribner algorithm parameters optimised with
a **genetic algorithm** ..... This factor is then applied to the **filter coefficients**: ...
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[PDF] 2-Digit Summary
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... this does not turn out to be a problem since most of the **coefficients** are clustered
at ... Fig. 3 shows a **filter** designed with a **genetic algorithm** for which ...
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[PS] A Genetic Adaptive Algorithm for Data
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In adapting equalizer **filter coefficients**, the **genetic algorithm** maintains a
fixed-size population of structures, each one representing a set of **filter** coeffi ...
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OPTICAL REVIEW Vol. 10, No. 4 (2003) 251-254
... **genetic algorithm** has been used to find the optimal weighting **coefficients** for the
wavelet and the matched filters that constitute the composite **filter**.
annex.jsap.or.jp/OSJ/opticalreview/ TOC-Lists/vol10/10d0251tx.htm - 4k - Cached - Similar pages

An efficient local search method guided by gradient information ...
... digital **filter** using a parallel **genetic algorithm**, IEEE Trans ... method for finite
wordlength digital **filter** design, Proc ... with powers-of-two **coefficients**, IEEE Trans ...
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... from the evolutionary design of **filter coefficients**, proposed in ... to the low-level
filter structure, and ... design methodology: the **genetic algorithm** produced the ...
mago.crema.unimi.it/pub/RossiLiberaliTettamanzi2001.pdf - Similar pages

Citations: An improved search algorithm for the design of ...
... of- two **coefficients**," IEEE Trans. on Circuits and Systems, pp. 1044-1047, July
1989. Efficient **Genetic Algorithm** Design for Power-of-Two FIR **Filter** - Gentili ...
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... and uni-modal according to the **filter coefficients**, Gradient based .... optimization methods
for digital IIR **filter** design, the **genetic algorithm** (GA) seems ...
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International Conferences
... A method for region segmentation with a **Genetic Algorithm**, International Conference ....
characteristics of ARMA four-line lattice **filter coefficients**, Proceedings of ...
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[PDF] A **Genetic Algorithm** for the Inverse Problem in Synthesis of Fiber ...

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[3], yielding smoother coupling **coefficients** than the ...... SKAAR AND RISVIK: A **GENETIC
ALGORITHM** FOR THE INVERSE PROBLEM ... of the genetic bandpass **filter**, (solid curve ...
jlt.osa.org/ViewMedia.cfm?id=66502&seq=0 - <u>Similar pages</u>

[PS] <u>Evolving an Adaptive Digital **Filter**</u>
File Format: Adobe PostScript - <u>View as Text</u>
... generator is an adaptive algorithm that adjusts **filter coefficients** tomeet changing
conditions in the input signal -- in our case a **genetic algorithm** is used.
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	PAT. NO.	Title
1	6,850,252	Intelligent electronic appliance system and method
2	6,819,746	Expert system for loop qualification of XDSL services
3	6,787,747	Fast phase diversity wavefront correction using a neural network
4	6,781,706	Method and apparatus for multidomain data analysis
5	6,763,322	Method for enhancement in screening throughput
6	6,760,372	Adaptive signal processor using an eye-diagram metric
7	6,757,667	Method for optimizing formulations
8	6,744,927	Data communication control apparatus and its control method, image processing apparatus and its method, and data communication system
9	6,741,937	Methods and systems for estimating binding affinity
10	6,738,499	System for detection of malignancy in pulmonary nodules
11	6,737,918	Distortion compensation apparatus
12	6,716,175	Autonomous boundary detection system for echocardiographic images
13	6,701,236	Intelligent mechatronic control suspension system based on soft computing
14	6,700,304	Active/passive distributed absorber for vibration and sound radiation control
15	6,689,064	Ultrasound clutter filter
16	6,687,554	Method and device for controlling optimization of a control subject
17	6,665,446	Image processing apparatus and method
18	6,650,779	Method and apparatus for analyzing an image to detect and identify patterns
19	6,643,597	Calibrating a test system using unknown standards
20	6,622,560	Ultrasound imaging method and apparatus based on pulse compression technique using a spread

spectrum signal

21 6,601,051 [T] Neural systems with range reducers and/or extenders

22 6,564,117 [T] Automated optimization of cross machine direction profile control performance for sheet making processes

23 6,532,076 [T] Method and apparatus for multidomain data analysis

24 6,529,816 [T] Evolutionary controlling system for motor

25 6,523,016 [T] Learnable non-darwinian evolution

26 6,487,516 [T] System for three dimensional positioning and tracking with dynamic range extension

27 6,411,946 [T] Route optimization and traffic management in an ATM network using neural computing

28 6,411,373 [T] Fiber optic illumination and detection patterns, shapes, and locations for use in spectroscopic analysis

29 6,408,227 [T] System and method for controlling effluents in treatment systems

30 6,346,124 [T] Autonomous boundary detection system for echocardiographic images

31 6,336,050 [T] Method and apparatus for iteratively optimizing functional outputs with respect to inputs

32 6,316,934 [T] System for three dimensional positioning and tracking

33 6,303,303 [T] Method and system for DNA sequence determination and mutation detection

34 6,278,986 [T] Integrated controlling system

35 6,278,962 [T] Hybrid linear-neural network process control

36 6,272,479 [T] Method of evolving classifier programs for signal processing and control

37 6,259,389 [T] System for designing and testing a sigma-delta modulator using response surface techniques

38 6,251,620 [T] Three dimensional structure of a ZAP tyrosine protein kinase fragment and modeling methods

39 6,246,972 [T] Analyzer for modeling and optimizing maintenance operations

40 6,223,133 [T] Method for optimizing multivariate calibrations

41 6,223,101 [T] District heat supply plant controller

42 6,219,622 [T] Computational method for designing chemical structures having common functional characteristics

43 6,205,236 [T] Method and system for automated detection of clustered microcalcifications from digital mammograms

44 6,157,894 [T] Liquid gauging using sensor fusion and data fusion

45 6,154,705 [T] System for attenuating high order free surface multiples from a seismic shot record using a genetic procedure

46 6,148,274 [T] Optimization adjusting method and optimization adjusting apparatus

47 6,137,898 [T] Gabor filtering for improved microcalcification detection in digital mammograms

48 6,128,346 [T] Method and apparatus for quantizing a signal in a digital system

49 6,110,214 [T] Analyzer for modeling and optimizing maintenance operations

50 6,107,963 [T] Adaptive array antenna

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PAT. NO.	Title
51 6,078,680 ⬚	Method, apparatus, and storage medium for detection of nodules in biological tissue using wavelet snakes to characterize features in radiographic images
52 6,004,015 ⬚	Optimization adjusting method and optimization adjusting apparatus
53 5,999,639 ⬚	Method and system for automated detection of clustered microcalcifications from digital mammograms
54 5,953,446 ⬚	Method and apparatus for optical data analysis
55 5,949,989 ⬚	Method of designing and developing engine induction systems which minimize engine source noise
56 5,940,825 ⬚	Adaptive similarity searching in sequence databases
57 5,912,821 ⬚	Vibration/noise control system including adaptive digital filters for simulating dynamic characteristics of a vibration/noise source having a rotating member
58 5,877,954 ⬚	Hybrid linear-neural network process control
59 5,864,633 ⬚	Method and apparatus for optical data analysis
60 5,853,979 ⬚	Method and system for DNA sequence determination and mutation detection with reference to a standard
61 5,838,832 ⬚	Method and system for representing a data set with a data transforming function and data mask
62 5,819,244 ⬚	Adaptive computing systems, computer readable memories and processes employing hyperlinear chromosomes
63 5,815,198 ⬚	Method and apparatus for analyzing an image to detect and identify defects
64 5,761,383 ⬚	Adaptive filtering neural network classifier
65 5,750,994 ⬚	Positive correlation filter systems and methods of use thereof
66 5,745,382 ⬚	Neural network based system for equipment surveillance
67 5,699,268 ⬚	Computational method for designing chemical structures having common functional characteristics

68 5,694,474   Adaptive filter for signal processing and method therefor

69 5,649,065   Optimal filtering by neural networks with range extenders and/or reducers

70 5,517,463   Method of determining optimal seismic multistreamer spacing

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